

(19)



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 0 851 602 A2

(12)

EUROPEAN PATENT APPLICATION

(43) Date of publication:
01.07.1999 Bulletin 1999/27

(51) Int. Cl.⁸: H04B 1/707, H04B 7/005

(21) Application number: 97310179.3

(22) Date of filing: 16.12.1997

(84) Designated Contracting States:
AT BE CH DE DK ES FI FR GB GR IE IT LJ LU MC
NL PT SE
Designated Extension States:
AL LT LV MK RO SI

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(30) Priority: 31.12.1996 US 778737

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(54) Differential phase shift keying spread spectrum packet signal detection

(57) For use in a direct sequence spread spectrum ("DSSS") receiver adapted to receive a differential phase shift keyed ("DPSK") packet on a channel, the DPSK packet having a training preamble and a data portion, a system to improve detection of the packet under degraded channel conditions, comprising: (1) a detection circuit that derives phase information from symbols in the packet and a weight that is a function of

an estimated power profile for the channel and (2) a computation circuit that computes a weighted average for the phase information using the weight, the weighted average being power profile-based to allow the receiver to detect the data contained in the packet more reliably under the degraded channel conditions.

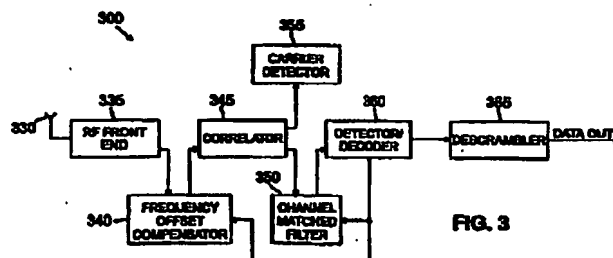


FIG. 3

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